Profile Parameters Grouped by Function

The individual parameters contained in the NATPARM parameter file (or an alternate parameter file) can be changed in the Natural Configuration Utility. They are divided into groups according to their functions.

If you expand the tree item of the NATPARM parameter file, a list of the following parameter groups is displayed:

- Database Management
- Natural Execution Configuration
- Natural Development Environment
- Product Configuration
- Client/Server

See also:

- Profile Parameter Usage
- Natural Configuration Utility

Database Management

The following sections provide an overview of the parameters contained in the individual groups.

- General Parameters
- Adabas Specific
- Administrator DBMS Assignment
- User DBMS Assignment

General Parameters

Parameter	Function
DBUPD	Database updating.
ET	Execution of END/BACKOUT TRANSACTION statements.
OPRB	Adabas open/close processing.

Adabas Specific

If Natural is used with Adabas C, the following parameters should be reviewed and, if necessary, the default values should be adjusted to meet your specific requirements:

Parameter	Function
ETID	Adabas user identification.
LDB	DB Time Limit.
WH	Record hold processing.

Administrator DBMS Assignment

The following parameters are used to assign database management system settings:

Parameter	Function
LFILE	Administrator logical files.
TF	Translation of file number.
XADB	XA databases.

User DBMS Assignment

The following parameters are used to assign database management system settings:

Parameter	Function
ETDB	Database for transaction data.
LFILE	Dynamic specification of a user logical file.
LFILMAX	Maximum number of logical files.
UDB	User database ID.

Natural Execution Configuration

- Batch Mode
- Buffer Sizes
- Character Assignments
- Command Execution
- Date Representation
- Device/Report Assignments
- Error Handling
- Field Appearance
- Limits
- Program Loading/Deletion
- Regional Settings
- Report Parameters
- Steplibs
- System Files
- System Variables
- Workfiles

Batch Mode

For space considerations, the parameters affecting the batch mode behavior of Natural are arranged on three tabs: Channels, Appearance and Frame Characteristics. In the table below, these paramaters are summarized in alphabetical order.

Parameter	Function
BATCH	Enable Batch Mode Simulation
BATCHMODE	Enable Real Batch Mode
BMBLANK	Display Trailing Blanks
BMCONTROL	Display Control Characters
BMFRAME	Frame Characters
BMSIM	Similar Output
BMTIME	Display Process Time
BMTITLE	Display Window Title
BMVERSION	Display Natural Version
CC	Enable Error Processing
CMOBJIN	Input Data Channel
CMPRINT	Output Channel
CMSYNIN	Input Commands Channel
ECHO	Display Input Data
ENDMSG	Session End-Message
NATLOG	Natural Log File

Buffer Sizes

Natural uses several buffer areas for the storage of programs and data. You may need to adjust their sizes in order to achieve maximum buffer efficiency.

Parameter	Function
EDTBPSIZE	SAG Editor Bufferpool Size.
EDTLFILES	SAG Editor Logical Files.
SORTSIZE	Size of sort buffer area.
SSIZE	Source area size.
USIZE	Size of user buffer area.

Character Assignments

The following parameters are used to change default character assignments:

Parameter	Function
CF	Control character for terminal commands.
CLEAR	Processing of CLEAR key at runtime.
DC	Character to be used as decimal point.
FC	Filler character for maps generated with an INPUT statement.
HI	Character to invoke field- or map-related help.
IA	Input assign character.
ID	Input delimiter character.

Once a character has been defined to replace a default character, this character cannot be used as data.

Command Execution

The following parameters are used to control the execution of commands:

Parameter	Function
CM	Command mode allowed.
ESCAPE	Enable %%.
NC	Control use of Natural system commands.
RECAT	Dynamic recataloging.

Date Representation

The following parameters are used to control the date representation:

Parameter	Function
DFOUT	Date Format on Output
DFSTACK	Date Format in STACK
DFTITLE	Date Format in Report Titles
DTFORM	Date Format
YSLW	Year Sliding Window

Device/Report Assignments

The "Devices" parameter group allows you to modify your screen and printer configurations as well as your report assignments.

Parameter	Function
MAINPR	Override default report number.
Devices	Devices

CMPRTnn	Output Channel????

Devices

- **Dev. Para. Ass**
  With this function (logical device VIDEO, LPT1 to LPT31), you can specify line size, page size and maximal number of pages for your video output device and for your printers.
- **Physical Dev**
  In addition, you can specify a physical device. "Physical Dev." denotes the name of any program which reads from standard input (STDIN/SYS$INPUT), for example the standard print command of your printer spooler with all options:
  UNIX System V: **lp <options>**
  BSD-UNIX: **lpr <options>**
  Line size, page size and maximum page number should be compatible with your hardware printer assignments.

Screen and Printer Configurations

- **Screen Configuration**
  With the "Screen Configuration" function (logical device is set to VIDEO), you can specify the line size, page size and maximum number of pages for your video output device; the values for line size and page size should correspond to your hardware screen assignments.
- **Printer Configuration**
  With the "Printer Configuration" function, you can assign up to 31 logical printers to, for example, an existing physical printer. You can specify the logical device name (LPT1 to LPT31), print method, physical specification, line size, page size and maximum number of output pages; line size, page size and maximum page number should be ciompatible with your hardware printer assignments.
  After having entered the logical device name (LPT*nn*) used in the DEFINE PRINTER statement, you select the print method. As print method, you can specify either "TTY" for TTY-type printer profiles or "GUI" for GUI-type printer profiles.
  Print Method TTY:
  If you have selected "TTY", you can also select a "Physical Specification", which corresponds to the printer name.
  Instead of selecting an existing physical printer specification, you can also enter a file name if you want your output to be written to a file. As with work files, such a file name can be defined by using environment variables.
  Print Method GUI:
  If you have selected "GUI", you can choose the "Printer Setup" button, which takes you to a printer setup dialog specific to the operating system.

Report Assignments

With the "Report Assignments" function, you can assign a Natural report number (Report 1 to Report 31) to a logical device name. Possible values for the output medium are: VIDEO, LPT1 to LPT31, SOURCE (source area), DUMMY and INFOLINE.

Report Number 0 must be set to VIDEO and is not reassignable; no report number other than 0 can be assigned to VIDEO.

In addition to the logical device name, you can assign a printer profile as defined in the global configuration file. All defined printer profiles are listed for selection in the "Profile" combo box. Select "blank" if you do not want to use any of these profiles.

Error Handling

The following parameters are used to control error handling within Natural.

Parameter	Function
IKEY	Error processing for PA/PF keys.
MSGSF	Display system error messages in full.
REINP	Issue internal REINPUT statement for invalid data.
SA	Sound terminal alarm.
SNAT	Sound bell in the case of a syntax error.
ZD	Zero division.

Note:
You can use the profile parameter NOAPPLERR to supress the message number prefix "NAT" in user application errors. This parameter can only be specified dynamically, therefore, it cannot be modified or viewed within the Natural Configuration utility.

Field Appearance

Parameter	Function
CVMIM	Control variable modified at input.
FCDP	Filler character for dynamically protected input fields.
LC	Enable lower case.
NENTRY	Entry of numeric fields.
OPF	Overwriting of protected fields by helproutines.
PM	Print mode.
ZP	Zero printing.

Limits

The following parameters are used to prevent a single program from consuming an excessive amount of internal resources:

Parameter	Function
LE	Limit for error processing.
LT	Processing loop limit.
MADIO	Maximum number of DBMS calls.
MAXCL	Maximum number of program calls.
SD	System time delay.

Program Loading and Deletion

The following parameters are used to control the dynamic loading and deletion of programs:

Parameter	Function
BPSFI	Search first in buffer pool.
CDYNAM	Dynamic loading of non-Natural programs.
DYNPARM	Dynamic parameters.
ETA	Program to receive control after error in transaction.
PRGPAR	Data to be passed to the program defined by the parameter PROGRAM.
PROGRAM	Program to receive control after Natural termination.
ROSY	Disable storage of Natural programs.
STACK	Place data on Natural stack.

Regional Settings

The following parameters are used to control the country or region specific settings of Natural:

Parameter	Function
DD	Day differential.
TD	Time differential.
ULANG	User language.

Report Parameters

The following parameters control various attributes of Natural reports:

Parameter	Function
EJ	Page eject control.
IM	Default input mode.
LS	Line size.
PS	Page size.
SF	Spacing factor between fields.

Steplibs

Parameter	Function
USER	User ID.
LSTEP	Natural steplibs.
STEPLIB	STEPLIB Table

System Files

The following parameters are used to specify the Natural system files:

Parameter	Function
FDIC	Predict system file.
FNAT	Natural system file for system programs.
FSEC	Natural Security system file.
FUSER	Natural system file for user programs.

System Variables

The following parameters are used to adjust Natural system variables for the start of a Natural session:

Parameter	Function
AUTO	Automatic logon.
INIT-LIB	Startup library.
STARTUP	Startup program.

Note:
You can use the command line parameters NATVERS to specify the Natural version and PARM to specify a specific Natural parameter file at session startup. These parameters can only be specified dynamically, therefore, they cannot be modified or viewed within the Natural Configuration utility.

Workfiles

The following parameters can be used to specify work-file settings:

Parameter	Function
WFOPFA	Work file to be opened on first access.
WORK	maximum number of work files.
CMWRKnn	Natural work files.

Note:
You can use the Natural profile parameter TMPSORTUNIQ to specify an alternate naming convention for sort work files . This parameter can only be specified dynamically, therfore it can not be modified or viewed within the Natural Configuration utility.

Natural Development Environment

- Compiler Options
- Remote Debugging

Compiler Options

The following parameters are used to set options for the Natural compiler:

Parameter	Function
CO	Compiler Output
DBSHORT	Interpretation of Database Short Names
DSLM	Data Size Limitation
DU	Memory Dump Generation
ENDIAN	Endian mode
FS	Length/Format Specification
GFID	Generation of Global Format IDs
KC	Keyword Checking
SM	Structured Mode
SYMGEN	Generate Symbol Tables
SYNERR	Syntax Error Control
TQ	Translate Double Quotes
V22COMP	Natural Version 2.2 Compatibility Option
XREF	Active Cross References

Remote Debugging

The following parameters are used to allow for remote debugging:

Parameter	Function
RDACTIVE	Activate remote debugger.
RDNODE	Remote debugger node name.
RDPORT	Remote debugger port.

Product Configuration

- Entire Transaction Propagator
- Entire System Server Interface

Entire Transaction Propagator

The following parameters are used in conjunction with Software AG’s Entire Transaction Propagator (ETP).

Parameter	Function
ETPDB	Database list for Entire Transaction Propagator.
ETPSIZE	Size of buffer for Entire Transaction Propagator.

Entire System Server Interface

The following parameters are used in conjunction with Software AG's Entire System Server Interface (ESX).

Parameter	Function
ESXDB	Database ID used for Entire System Server DDM's.

Client/Server

- DCOM Support
- Remote Dictionary Access
- Remote Procedure Call

DCOM Support

The following parameters are used to provide DCOM support:

Parameter	Function
ACTPOLICY	Activation policy.
AUTOREGISTER	Automatic update of registry.
COMSERVERID	Server name.

Remote Dictionary Access

The following parameter is used for remote dictionary access:

Parameter	Function
USEDIC	Remote dictionary access.
USEREP	Enable Usage of Repository.

Remote Procedure Call

For space considerations, the parameters to select options in the Natural Remote Procedure Call (RPC) are arranged on several tabs RPC General, Client, Server and RDS. In the table below, these paramaters are summarized in alphabetical order.

The following parameters are used for :

Parameter	Function
ACIPATT	Node pattern for ACI.
ACIVERS	ACI Version.
AUTORPC	Automated remote execution.
COMPR	Send buffer compression.
CP	Code Page.
CSCPATT	Node pattern for CSCI.
DFS	Default server.
LOGONRQ	Logon required for server request.
MAXBUFF	Request buffer size.
RDS	Remote directory servers.
RPCSIZE	RPC buffer size.
SERVER	Start session as RPC server session.
SRVNAME	Server name.
SRVNODE	Server node.
SRVUSER	Server user ID.
TIMEOUT	Request timeout.
TRACE	RPC trace level.
TRANSP	Transport protocol.
TRYALT	Retry Service on alternate server.